

**Notice of Allowability**

Application No.

09/871,805

Examiner

Dalei Dong

Applicant(s)

YAMAZAKI, SHUNPEI

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Request for Continued Examination filed on October 19, 2006.
2. ☒ The allowed claim(s) is/are 1-109.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 9/15/2006
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on October 19, 2006 has been entered.

### ***Information Disclosure Statement***

2. The information disclosure statement (IDS) submitted on September 15, 2006 was filed after the mailing date of the Notice of Allowance on February 9, 2006. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### ***Allowable Subject Matter***

3. Claims 1-109 allowed.
4. The following is an examiner's statement of reasons for allowance:

The Information Disclosure Statement filed on September 15, 2006, has been considered by the Examiner, and the cited prior art does not read on the claimed subject matter.

Regarding to claim 1, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a first pixel including a first EL element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet compound is used in each of the second and third EL element.

Regarding to claim 2, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a first pixel including a first EL element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet compound is used in each of the second and third EL element.

Regarding to claim 3, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a first pixel including a first EL

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element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet compound is used in each of the second and third EL element.

Regarding to claim 4, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a first pixel including a first EL element for emitting a red light in the pixel portion; a second pixel including a second EL element for emitting green light in the pixel portion; a third pixel including a third EL element for emitting a blue light in the pixel portion; wherein a triplet compound is used in the first EL element while a singlet compound is used in each of the second and third EL element.

Regarding to independent claim 53, prior art of record taken alone or in combination fails to teach or suggest a light emitting device having a pixel portion over a substrate, the pixel portion comprising: a first EL element for emitting a red light, the first EL element comprising a triplet compound; and at least one of the second EL element and the third EL element comprises a singlet compound.

Regarding to independent claim 54, prior art of record taken alone or in combination fails to teach or suggest a light emitting device having a pixel portion over a

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substrate, the pixel portion comprising: a light emitting layer comprising an organic compound which emits light by triplet exciton and wherein at least one of the second EL element and the third EL element comprises a light emitting layer comprising an organic compound which emits light by singlet exciton.

Regarding to independent claim 58, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a first EL element for emitting a red light in the pixel portion, the first EL element comprising a triplet compound; wherein at least one of the second EL element and the third EL element comprises a singlet compound.

Regarding to independent claim 59, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a light emitting layer comprising an organic compound which emits light by a triplet exciton; wherein at least one of the second EL element and the third EL element comprises a light emitting layer comprising an organic compound which emits light by a singlet exciton.

Regarding to independent claim 60, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a first EL element for emitting a red light in the pixel portion, the first EL element comprising a triplet compound; wherein each of the second EL element and the third EL element comprise a singlet compound.

Regarding to independent claim 61, prior art of record taken alone or in combination fails to teach or suggest a light emitting device comprising: a light emitting layer comprising an organic compound which emits light by a triplet exciton wherein each of the second EL element and the third EL element comprise a light emitting layer comprising an organic compound which emits light by a singlet exciton.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.


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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



D.D.

December 1, 2006

  
Karabi Guharay  
Primary Examiner  
Art Unit 2879

**KARABI GUHARAY**  
**PRIMARY EXAMINER**